

HITACHI

Plasma Color Television

Model

42PD380TA-P2

USER'S MANUAL

用戶手冊

用戶手冊

РУКОВОДСТВО ПОЛЬЗОВАТЕЛЯ

**READ THE INSTRUCTIONS INSIDE CAREFULLY.
KEEP THIS USER'S MANUAL FOR FUTURE REFERENCE.**

For future reference, record the serial number of your television.

SERIAL NO._____

The serial number is located on the rear of the television.

NOTE:

The information in this manual is subject to change without notice. The manufacturer assumes no responsibility for any errors that may appear in this manual.

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USER'S MANUAL

Thank you very much for purchasing the HITACHI Plasma Television. Before using your television, please carefully read the "SAFETY INSTRUCTIONS" and this "USER'S MANUAL" so you will know how to operate the television properly. Keep this manual in a safe place. You will find it useful in the future.

Notes on Installation Work:

This product is marketed assuming that it is installed by qualified personnel with enough skill and competence. Always have an installation specialist or your dealer install and set up the product. HITACHI cannot assume liabilities for damage caused by mistake in installation or mounting, misuse, modification or a natural disaster.

Note for Dealers:

After installation, be sure to deliver this manual to the customer and explain to the customer how to handle the product.

FEATURES

Important

Please read this User's Manual thoroughly, especially the Safety Instructions on Page 4 to 7. Mis-use may cause damage to your plasma television, which could shorten its lifespan, or cause injury to yourself. Should you encounter any difficulty in the set-up or operation of your television, firstly refer to the Troubleshooting guide at the rear of this manual. In the unlikely event of a problem occurring with your plasma television, switch off at the mains sockets, pull out the plugs, and contact your dealer immediately.

CAUTION

Under no circumstances remove the rear cover of your plasma television.

Never guess or take any chances with electrical equipment of any kind - it is better to be safe than sorry!

Software Notice

It is prohibited for the end user of this product to copy, reverse engineer or reverse compile the software included therein, save to the extent permitted by law.

Plasma Television

After the plasma television has been on for any length of time, you will notice that the screen becomes warm. Please note that this is normal. Sometimes the screen might have some tiny bright or dark spots.

Please note that this is normal.

CAUTION

To prevent scratches or damages to the plasma screen, do not knock or rub the surface with sharp or hard objects. Clean the screen with a soft cloth moistened with warm water and dry with a soft cloth. A mild soap may be used if the screen is extremely dirty.

Do not use harsh or abrasive cleaners!

CAUTION

Use a soft cloth to clean the cabinet and control panel of the television. When excessively soiled dilute a neutral detergent in water, wet and wring out the soft cloth and afterward wipe with a dry soft cloth.

Never use acid/alkaline detergent, alcoholic detergent, abrasive cleaner, powder soap, OA cleaner, car wax, glass cleaner, etc. especially because they would cause discoloration, scratches or cracks.

Large-screen, high-definition plasma display panel

The 42-inch color plasma display panel, with a resolution of 852(H) x 480(V) pixels, creates a high-definition, large-screen (aspect ratio : 16:9) and low-profile flat display. Free from electromagnetic interferences from geomagnetic sources and ambient power lines, the panel produces high-quality display images free from color misconvergence and display distortion.

Easy-to-use remote control and on screen display system

The remote control included eases the work of setting display controls. Further, the on-screen display system, displays the status of signal reception and display control settings in an easy-to-view fashion.

Connecting to an Audio Visual Device

- Three composite/S terminals^{*1}, three composite terminals^{*2}, two component terminals^{*2} and a HDMI terminal have been added. A composite video output terminal is also provided as a monitoring output.

^{*1} A composite/S terminal = A side input

^{*2} If two composite terminal and two component terminal are used at the same time, the component terminal would govern.

- A wide range of devices can also be connected besides personal computers.

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Notes about This Manual

- The information in this manual is subject to change without notice.
- While meticulous care has been taken in the preparation of this manual, you are requested to notify your dealer or us should you have any comments, views or questions about our product.
- Fully understand the prerequisites to using the product, such as hardware and software specifications and constraints, in using the product. We are not held liable for damages caused by improper handling of the product.
- Reproduction of this manual in whole or in part without our prior written permission is prohibited.
- The product names mentioned in this manual may be trademarks or registered trademarks of their respective owners.

SAFETY INSTRUCTIONS

This Plasma television has been designed and manufactured to meet international safety standards, but like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured. Before using this product, please read and understand the Safety Instructions thoroughly to ensure correct usage, and follow all the instructions.

About the Symbols

Various symbols are used in this manual, the user's manual and on the product itself to ensure correct usage, to prevent danger to the user and others, and to prevent property damage. The meanings of these symbols are described below. It is important that you read these descriptions thoroughly and fully understand the contents.



WARNING

This symbol indicates information that, if ignored, could possibly result in personal injury or even death due to incorrect handling.



CAUTION

This symbol indicates information that, if ignored, could result possibly in personal injury or physical damage due to incorrect handling.

Typical Symbols



This symbol indicates an additional warning (including cautions). An illustration is provided to clarify the contents.



This symbol indicates a prohibited action. The contents will be clearly indicated in an illustration or nearby (the symbol to the left indicates that disassembly is prohibited).



This symbol indicates a compulsory action. The contents will be clearly indicated in an illustration or nearby (the symbol to the left indicates that the power plug should be disconnected from the power outlet).



WARNING

Never use the television if a problem should occur.

Abnormal operations such as smoke, strange odor, no image, no sound, excessive sound, damaged casing, elements, cables, penetration of liquids or foreign matter, etc. can cause a fire or electrical shock. In such case, immediately turn off the power switch and then disconnect the power plug from the power outlet. After making sure that the smoke or odor has stopped, contact your dealer. Never attempt to make repairs yourself because this could be dangerous.



Disconnect the plug from the power outlet.

Do not insert liquids or foreign objects.

Penetration of liquids or foreign objects could result in fire or electrical shock. Use special caution in households where children are present. If liquids or foreign objects should enter the television, immediately turn off the power switch, disconnect the power plug from the power outlet and contact your dealer.

- Do not place the television in a bathroom.
- Do not expose the television to rain or moisture.
- Do not place flower vases, pots, cups, cosmetics, liquids such as water, etc. on or around the television.
- Do not place metals, combustibles, etc on or around the television.



Do not disassemble.

Never disassemble or modify the television.

The television contains high voltage components. Modification could result in fire or electrical shock.

- Never remove any fixed cover.

Do not give the television any shock or impact.

If the television should be shocked and/or broken, it could result in an injury, and continued use could result in fire or electrical shock. If the glass panel is broken or damaged, immediately turn off the power switch, disconnect the power plug from the power outlet and contact your dealer.



Do not place the television on an unstable surface.

If the television should be dropped and/or broken, it could result in an injury, and continued use could result in fire or electrical shock.

- Do not place the television on an unstable, slant or vibrant surface such as a wobbly or inclined stand.



Do not obstruct the ventilation of the television.

If the ventilation is obstructed during the operation of the television or just after switching off the power, it could result in damage and shorten the lifespan of your television due to overheating. Make sure there is ample ventilation.

- Keep a space of 100mm (10cm) or more between the sides, rear and top of the television and other objects such as walls.
- Do not place anything around ventilation openings of the television.
- Never block ventilation openings.
- Do not put the plasma screen side up.
- Do not cover the television with a tablecloth, etc.
- Do not place the television on a carpet or bedding, or near a curtain.



Use only the correct power outlet.

Incorrect power supply could result in fire or electrical shock. Use only the correct power outlet depending on the indication on the television and the safety standard.

- The enclosed power cord must be used depending on the power outlet to be used.



SAFETY INSTRUCTIONS (continued)

WARNING

Be cautious of the power cord connection.

Incorrect connection of the power cord could result in fire or electrical shock.

- Do not touch the power cord with a wet hand.
- Check that the connecting portion of the power cord is clean (with no dust), before using. Use a soft and dry cloth to clean the power plug.
- Insert the power plug into a power outlet firmly. Avoid using a loose, unsound outlet or contact failure.
- Do not cut off the fitted power plug, the removal of which could lead to impaired performance. If you wish to extend the lead, obtain an appropriate extension lead or consult your dealer.
- Should you require replacing the fuse in the molded plug with a new fuse, then please replace with new one of the same value, type and approval as the original. Ensure the fuse cover is returned to its original position.



Be sure to keep safety ground connection.

- Connect the ground terminal of AC inlet of this television with the ground terminal provided at the power outlet using the enclosed power cord. If the provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet.
- The socket-outlet must be installed near the television and easily accessible.



Surely connect the ground wire.

Be careful in handling the power cord and external connection cables.

If you keep using a damaged the power cord or cables, it can cause a fire or electrical shock. Do not apply too much heat, pressure or tension to the power cord and cables. If the power cord or cables are damaged (exposed or broken core wires, etc.), contact your dealer.

- Do not place the television or heavy objects on the power cord and cables. Also, do not place a spread, cover, etc., over them because this could result in the inadvertent placing of heavy objects on the concealed power cord or cables.
- Do not pull the power cord and cables. When connecting and disconnecting the power cord or cables, do it with your hand holding the plug or connector.
- Do not place the cord near the heater.
- Do not touch the power plug just after disconnecting it from the power outlet to prevent electric shock.
- Do not touch the power plug when lightning is close to you.
- Avoid coiling the power cord and bending it sharply.
- Protect the power cord from being walked on, pinched particularly at plugs conveniences receptacles, and the point where they exit from the apparatus.
- Do not modify the power cord.



Be careful in handling the battery of the remote control.

Incorrect handling of the battery could result in fire or personal injury. The battery may explode if not handled properly.

- Keep the battery away from children and pets. If swallowed consult a physician immediately for emergency treatment.
- Do not allow the battery to be exposed to fire or water.
- Avoid fire or high-temperature environment.
- Do not hold the battery with metallic tweezers.
- Keep the battery in a dark, cool and dry place.
- Do not short circuit the battery.
- Do not recharge, disassemble or solder the battery.
- Do not physically impact the battery.
- Use only the battery specified in the manual of this television.
- Make sure the plus and minus terminals are correctly aligned when loading the battery.
- If you observe a leakage of the battery, wipe out the liquid and then replace the battery. If the liquid adheres your body or clothes, rinse well with water.
- Obey the local laws on disposing the battery.



SAFETY INSTRUCTIONS (continued)

CAUTION

Be careful in moving the television.

Neglect could result in an injury or damage.

- Do not move the television during use. Before moving, disconnect the power plug and all external connections.
- You are advised to move the television with two persons.
- Avoid any impact or shock to the television; particularly take care of glass screen.

Do not put anything on top of the television.

Placing anything on the television could result in loss of balance or falling, and cause an injury or damage. Use special caution households where children are present.

Avoid a humid or dusty place.

Placing the television in a smoke, a highly humid, dusty place, oily soot or corrosive gas could result in fire or electrical shock.

- Do not place near the kitchen, a humidifier or other place where there is oil, smoke or humidity.

Avoid a high temperature environment.

The heat could have adverse influence on the television and other parts, and could result in transformation, melting or fire.

- Do not place the television, the remote control and other parts in direct sunlight or near a hot object such as heater, etc.
- Do not put the television in a place where the temperature is widely changing.

Remove the power cord for complete separation.

- For safety purposes, disconnect the power cord if the television is not to be used for prolonged periods of time.
- Before cleaning, turn off and unplug the television. Neglect could result in fire or electrical shock.

PRECAUTIONS

Installation environment

Do not obstruct a ventilation hole.

Do not put the television on carpet or blanket, or near a curtain which has a possibility of obstructing a ventilation hole of the television.

Do not put the television in the following places.

- Hot places such as near heater, place exposed to the direct rays of the sun.
- A place where the temperature is widely changing.
- Places with soot, dust or high humidity.
- Poor air ventilation place.
- Place near fire.
- A wet place such as bathroom, or shower room.
- Place where you can trip over it.
- Always vibrating or strongly vibrating places.
- Distorted or unstable places.

How to view the television

If you use the television in too dark a room, your eyes may become tired.

Please use it in a reasonably bright room.

Avoid direct rays of the sun to the screen in order to prevent eye fatigue.

Your eyes will get fatigued after viewing the television for long period of time.

Relax your eyes by viewing away from the television from time to time.

Please watch the television in downward direction.

Note on image retention

The plasma television illuminates phosphor to display images. The phosphor has a finite illumination life. After extended periods of illumination, the brightness of the phosphor will be degraded to such extent that stationary images would burn-in that part of the screen as grayed-out images.

Tips to prevent such image retention are:

- Do not display images having sharp brightness differences or high-contrast images, such as monochrome characters and graphic patterns, for long.
- Do not leave stationary images appearing for long, but try to refresh them at appropriate intervals of time, or try to move them using screen saver function.
- Turn down the contrast and brightness controls.

How to clean the plasma screen panel of the television

Before cleaning the television, turn off the television and disconnect the power plug from the power outlet.

To prevent scratching or damaging the plasma screen face, do not knock or rub the surface with sharp or hard objects. Clean the screen with a soft cloth moistened with warm water and dry with a soft cloth. If it is not enough, then use a cloth with mild detergent. Do not use harsh or abrasive cleaners.

How to clean the cabinet of the television

Use a soft cloth to clean the cabinet and control panel of the television. When excessively soiled dilute a neutral detergent in water, wet and wring out the soft cloth and afterward wipe with a dry soft cloth.

Never use acid/alkaline detergent, alcoholic detergent, abrasive cleaner, powder soap, OA cleaner, car wax, glass cleaner, etc. especially because they would cause discoloration, scratches or cracks.



Disconnect the plug from the power outlet.



Disconnect the plug from the power outlet.

SAFETY INSTRUCTIONS (continued)

Prevention of an obstacle to Radio receivers

This television has been designed pursuant to the international EMI standards. This is to prevent a problem to Radio receivers.

- Keep the television away from Radio.
- Adjust Radio antennas in order for the television not to receive interference.
- The antenna cable of Radio should be kept away from the television.
- Use a coaxial cable for antenna.

You can check if this television influences Radio receivers by turning off all other equipment other than the television.

If you find a problem receiving Radio when using the television, check the instructions mentioned above.

Precautions for the cable connection

- Do ensure that all connections, (including the power plug, extension leads and interconnections between the pieces of equipment), are properly made and in accordance with the manufacturers instructions. Switch off and withdraw the power plug before making or changing connections.
- Confirm the connector is fixed tightly when the signal cable is connected.
Also confirm the screws on the connector are tightened.
- Plug the power cord of the television into a different socket from that for other equipment, such as Radio etc.
- Use a plug with ground terminal and make sure that it connects to the ground.

Precaution during transportation

Please pay attention when you transport this television because it is heavy.

Furthermore, use the original carton box and its packaging materials when the television is transported. Failure to transport the television in any carton except the original carton may result in damage to the television. Save the original carton box and all packing material.

Do not physically impact the remote control.

A physical impact could cause damage or malfunction of the remote control.

- Take care not to drop the remote control.
- Do not place heavy objects on the remote control.

Avoid strong rays.

Any strong rays (such as direct sun rays or room lighting) onto the remote control sensors could invalidate the remote control.

Avoid radio interference.

Any interfering radiation could cause distorted images or noises.

- Avoid radio generator such as a mobile telephone, transceiver, etc. around the television.

Set the sound volume at a suitable level.

It is better to keep the volume level low and close the windows at night to protect the neighborhood environment.

Precautions for the installation

- Do not use makeshift stands and NEVER fix legs with wood screws - to ensure complete safety, always fit the manufacturers approved stand or legs with the fixings provided according to the instructions.
- Use only with the cart, stand, tripod, bracket, or table specified by the dealer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- This product is designed to comply with the recommended safety standards for tilt and stability. Do not apply excessive pulling force to the front, or top, of the cabinet that could cause the product to overturn resulting in product damage and/or personal injury.
- Follow instructions for wall, shelf or ceiling mounting as recommended by the manufacturer.
- Only use the attachments/accessories specified by the manufacturer.
- Consult your dealer if you are in any doubt about installation, operation or safety of your equipment.

Other precautions

- Do not leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a stand-by mode. Switch off using the switch on the equipment and show your family how to do this. Make special arrangements for infirm or handicapped people.
- Disposal of this product may require specific instructions pertaining to your resident region.
- Never guess or take any chances with electrical equipment of any kind - it is better to be safe than sorry!

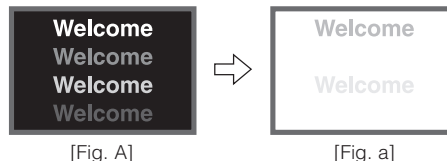
IMAGE RETENTION OF PLASMA TELEVISION

There are different characteristics that result in panel image retention depending on how the plasma television is used. Situations and effective usage methods related to ghosting are provided below.

Image retention characteristics of a plasma television

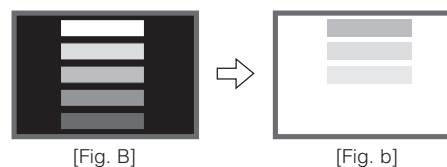
The image retention phenomenon of a plasma panel occurs due to partial phosphor degradation arising from partial character and figure display.

For example, when the character image as shown in Fig. A at the right is continuously displayed for a long period of time, the only part of the phosphor (Red, Green, Blue) that will degrade will be the color of the applicable character display portion. Consequently, when a white image is displayed on the entire screen as shown in Fig. a, the character marks displayed up to that time will become a color difference visible to the eye, but the phosphor will never burn.



■ The degree of image retention is proportional to the brightness of the characters and figures displayed as well as the display time.

- The tendency of the phosphor is to degrade more the brighter the characters and figures are displayed. When images of figures with different levels of brightness, as shown in Fig. B, are continuously displayed for a long period of time, it becomes easier for image marks at locations when the brighter figures are displayed to be noticeable.



* The image retention images in this document are exaggerated for the purpose of explanation. The actual manner in which the image retention is seen differs depending on the operation time and brightness.

Methods to Reduce the Occurrence of Image Retention

We recommend that you use the screen saver functions [\[35\]](#), [\[36\]](#).

Notes:

About screen defects

- High precision technology is used in the making of plasma panels but there may be dark spots (points that do not illuminate) and bright spots (points that are too bright) in some cases. These do not indicate a malfunction.

About residual images

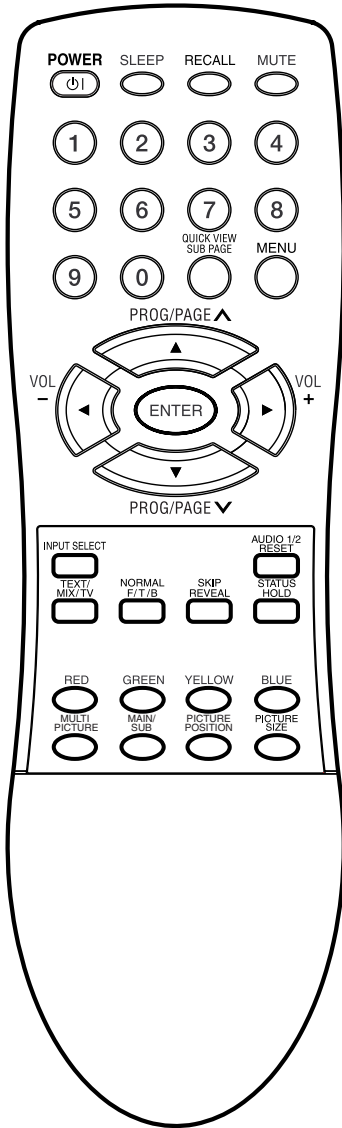
- In some cases, residual images may remain after the short-term display of still images and another image is displayed, but these will disappear and return to normalcy. This is not a malfunction.

About the panel screen

- Plasma displays display images by means of electrical discharges inside the panel. Because of this, the temperature of the panel surface may rise in some cases. Also, plasma displays are made of finely processed glass. A reinforced glass filter is installed over the panel surface but avoid strong impact because there is still danger of glass breakage.



Remote Control



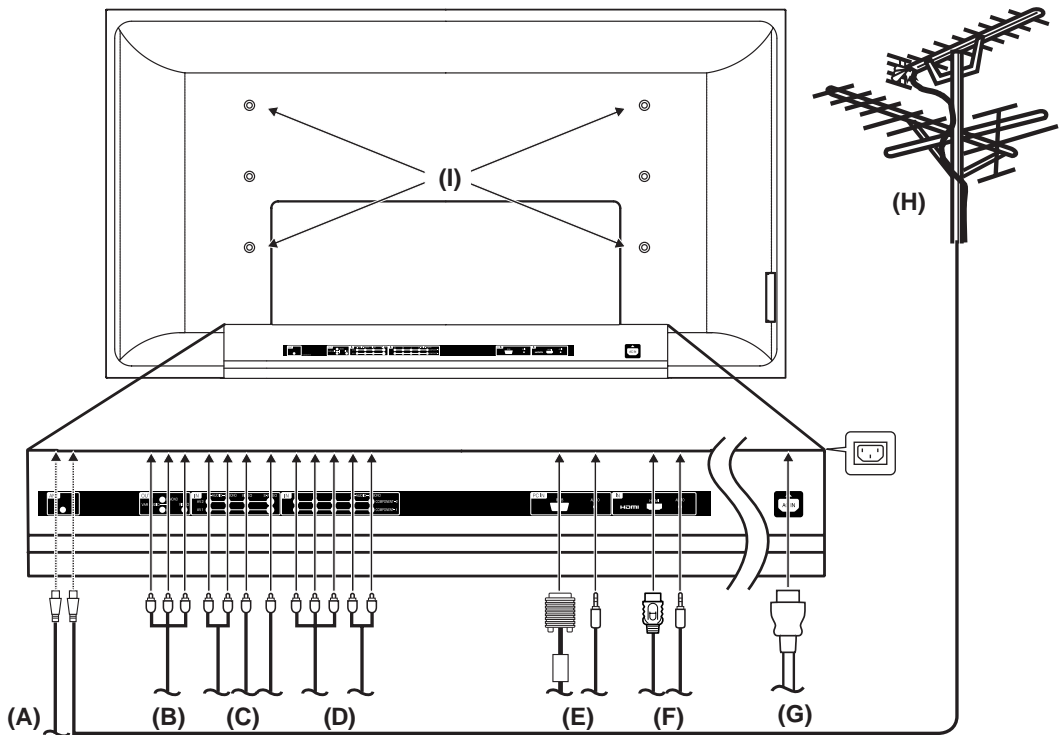
	Function	Page
	Turn the unit on or off	18
	Sleep-Timer	23
	Display program position number	23
	Turn the sound on/off	23
	Select channel Select Teletext page	20 23 40 42
	Switches between the present channel and the last selected channel Sub Page selection	23 41
	Call Menu	
	Select TV-channel or Teletext page step by step In Menu: Setting	23 40 42
	In Standby: Turning on the unit	18
	Volume In Menu: Setting	23
	Memorize	
	Select input source	18
	Two Channel-Sound AUDIO 1/2 selector Teletext page 100	26 41
	Teletext ON/ Mix/ OFF	40
	Reset Sound/Picture Teletext enlargement	27 29 38 41
	Program position-skipping Answer a Quiz	42 41
	Teletext-Timer display Hold the text page	23 41
	Fastext/Toptext buttons	40
	Activate the Multi Picture Mode	33 34
	Change Main- or Sub-screen in the Multi Picture Mode	33 34
	Change location of the Sub-screen	34
	Select picture format	31

Antenna connection

Note: Before you connect something:

- To avoid every possible damage, turn off the TV-unit with Main Power Switch and then pull the power plug out.
- Arrange the desired connection.
- When the connection made up firmly and correctly, connect the unit to AC100-240V, 50/60Hz and turn the unit on.
- For safety, install an external aerial conforming to AS1417.1 (applicable for Australia only).

Connect the antenna as shown below. Connect the unit with an outdoor antenna (H) or a cable-net (A). In case of reception disturbance, consult with a specialist of antenna.



(A) Antenna connection: The built-in Hyperband CATV tuner can receive all analog cable television programs.

(B) Variable Audio/Video output: To connect with an audio amplifier and external speakers, and adjust the audio level using the TV's remote control.
To control the audio, turn on the TV and the stereo amplifier, and turn off the TV's built-in speakers [28](#).
Signal from Video output jack are composite video signals.

(C) AV1/AV2 input: To the connection of audio and composite video/S-video cables.

(D) COMPONENT-1/2 input: To the connection of audio and component cables.

(E) PC Monitor input (PC): [16](#) [38](#).

(F) HDMI input: [16](#) [39](#).

(G) Power supply: Connect the supplied power cable. Connect to AC100-240V, 50/60Hz.

Never repair a damaged AC power cord with isolation-tape. Have a specialist exchange with a new AC power cord. Do not let your pet loose near the cable. To bite isolation is danger of life. Above all, a rat, a parakeet, a hamster, a rabbit and other toothed animals can bite the cable.

(H) Outdoor antenna: If the outdoor antenna already exists, you can also connect to it for analog TV-program.

(I) Bracket holes: To fix a wall mounting bracket (not supplied) here, remove the screws. If the unit is mounted on the wall, contact the shop where you purchased the unit for advice, and leave the installation work to experts. Incomplete installation work can cause you injuries.

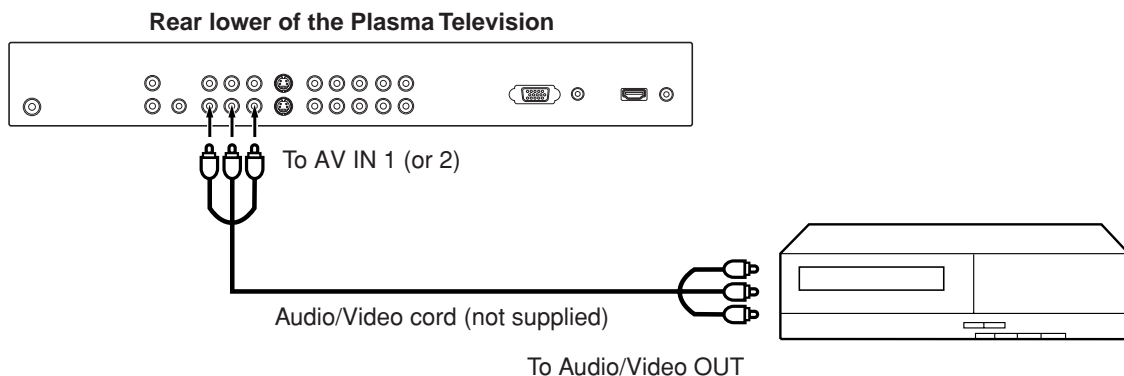
Connections to other equipment

The exact arrangement you use to interconnect various video and audio components to the Plasma Television is dependent on the model and features of each component. Check the Owner's Manual provided with each component for the location of video and audio inputs and outputs.

The connection diagrams below are offered as suggestions. You may need to modify them to accommodate your particular assortment of components. The diagrams are intended to show component video and audio interconnections only.

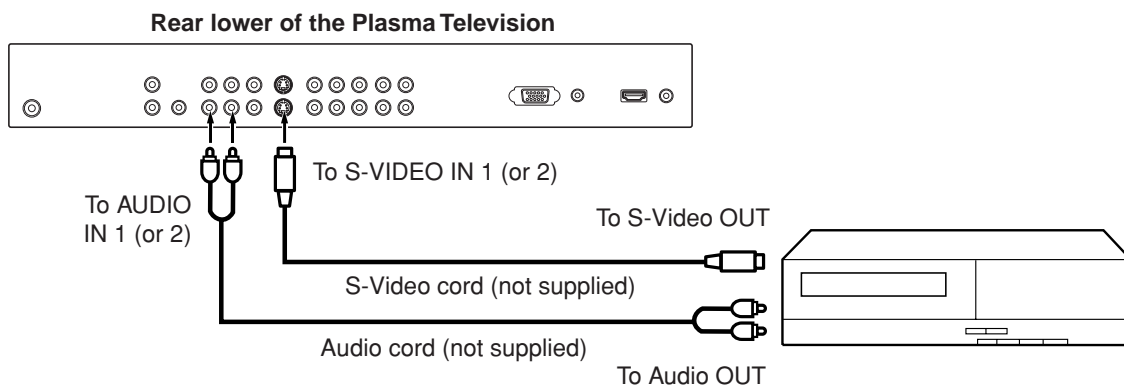
Note: Select a appropriate external input mode  18.

To connect the Plasma Television to a VCR



To connect the Plasma Television to a VCR with an S-Video cord

If you connect a VCR with a S-VIDEO cord to the S-VIDEO IN jack on the rear of the Plasma Television, you must also connect the audio cords to the AUDIO IN jacks on the rear of the Plasma Television. The S-VIDEO cord only carries the video signal. The audio signal is separate.



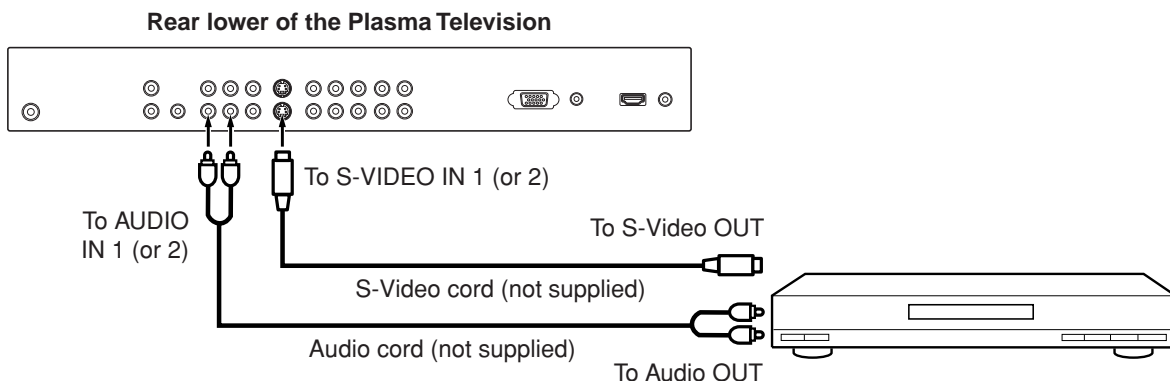
Note:

When the S-video cord and the video cord are connected to each jack at the same time, the S-video cord takes precedence over the video cord.

Connections to other equipment (continued)

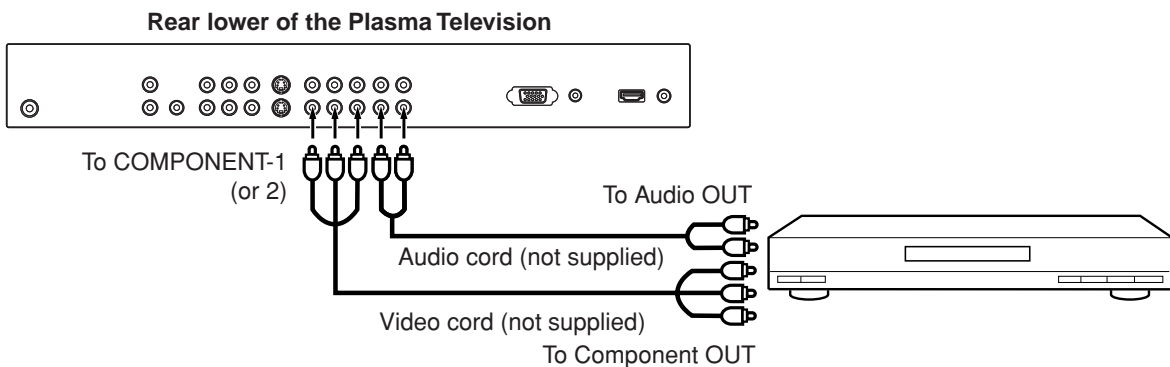
To connect the Plasma Television to a DVD player/Satellite receiver

If your DVD player or Satellite receiver has a S-Video out jack, connect cords as shown.



To connect the Plasma Television to a DVD player with component video

If your DVD player has component video out jacks, connect your Plasma Television to a DVD player using a component video cord. It can greatly enhance picture quality and performance.



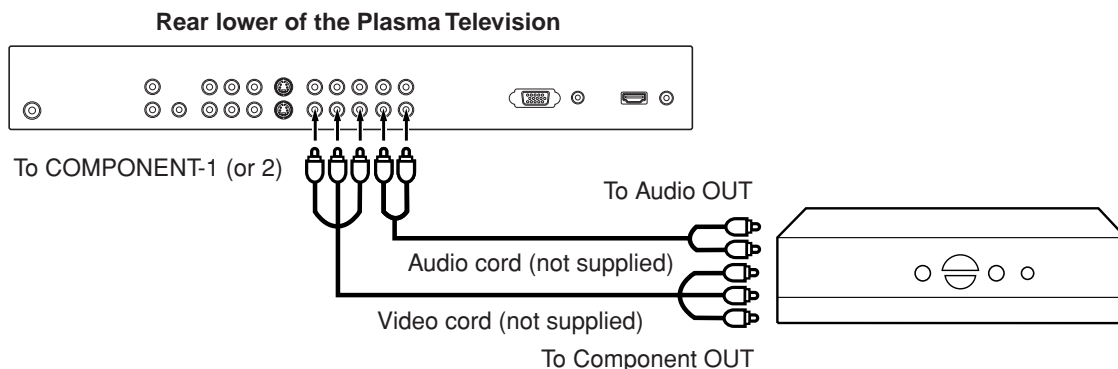
Note:

Component Video input of this unit are for use of device which output interlaced signals (PAL: 576i/1080i or NTSC: 480i/1080i) and progressive signals (PAL: 576p/720p or NTSC: 480p/720p).

Connections to other equipment (continued)

To connect the Plasma Television to a DTV receiver/set-top box

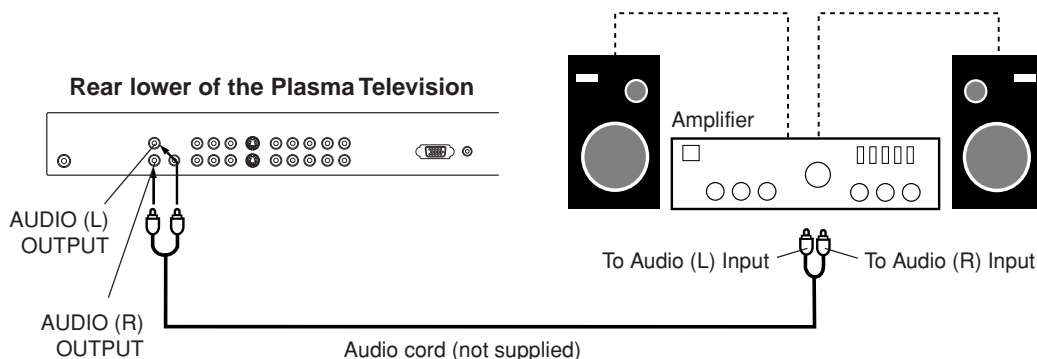
If you connect a DTV receiver/set-top box, connect your Plasma Television to a DTV receiver/set-top box using a component video cord.



Using an Audio Amplifier

This connection allows you to use an audio amplifier and external speakers, and adjust the audio level using the Plasma Television's remote control.

To control the audio, turn on the Plasma Television and the stereo amplifier, and turn off the Plasma Television's built-in speakers (see "Turning off the built-in speakers" on [28](#)).



Note:

To hear sound when using an external audio amplifier, the volume of both the Plasma Television and the amplifier must be set above 0 (zero).

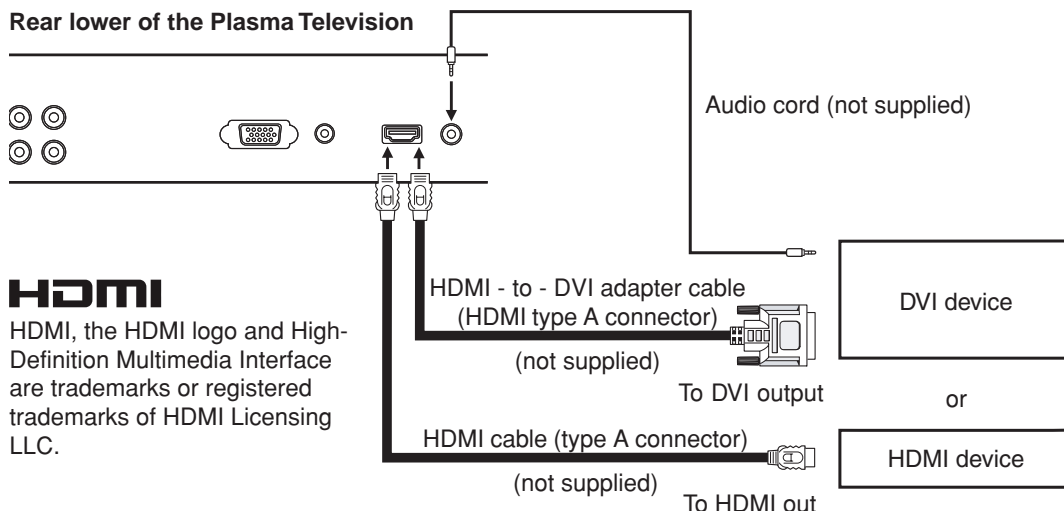
For example, if the volume of the Plasma Television is set to 0, you will not be able to hear any sound, even if the volume of the amplifier is at its highest level.

Connections to other equipment (continued)

To connect the Plasma Television to a HDMI or a DVI device

The HDMI input receives digital audio and uncompressed video from a HDMI device or uncompressed digital video from a DVI device.

When you connect to a DVI device with a HDMI-to-DVI adapter cable, it transfers only the video signal. Separate analog audio cord are required.



HDMI

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

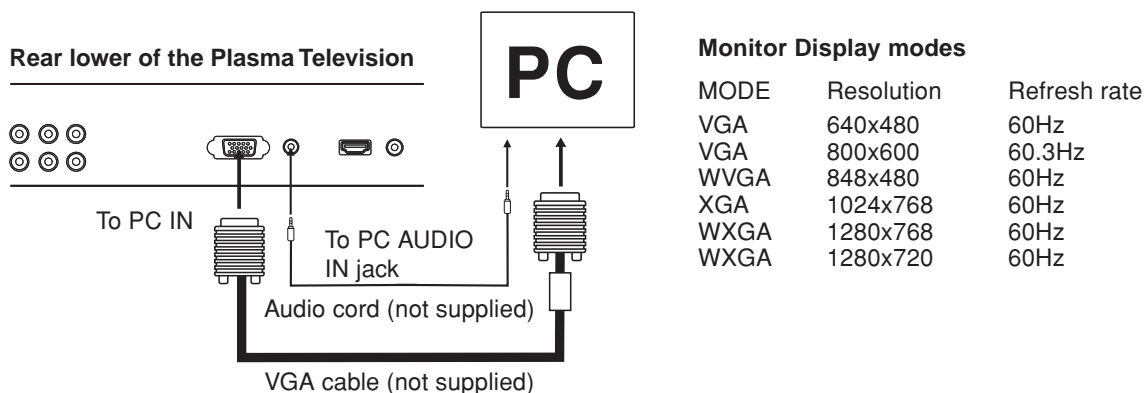
Note:

You must choose an appropriate setting for each connection 39.

To connect the Plasma Television to a PC (Personal Computer)

Before you connect this Plasma Television to your PC, change the adjustment of your PC's Resolution and Refresh rate (60 Hz).

Connect one end of a (male to male) VGA cable to the video card of the computer and the other end to the VGA connector PC MONITOR on the back of the Plasma Television. Attach the connectors firmly with the screws on the plug. In case of a Multimedia computer, connect the audio cable to the audio output of your Multimedia computer and to the AUDIO connector of the PC AUDIO IN jack of the Plasma Television. Switch on the computer. The Plasma Television can operate as the computer monitor.



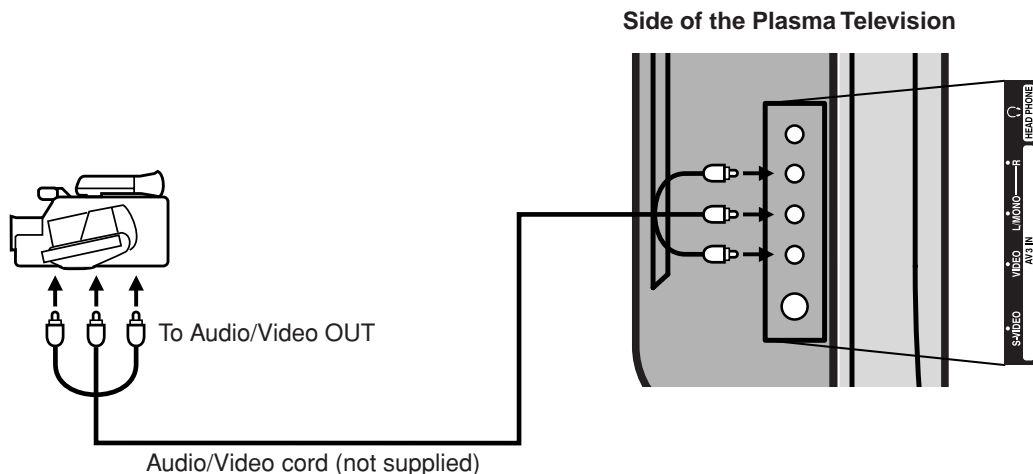
Note:

If there is no video signal from the computer when the unit is in PC mode, "NO SYNC. SIGNAL" will appear on the TV-screen for approx. 10 seconds.

Connections to other equipment (continued)

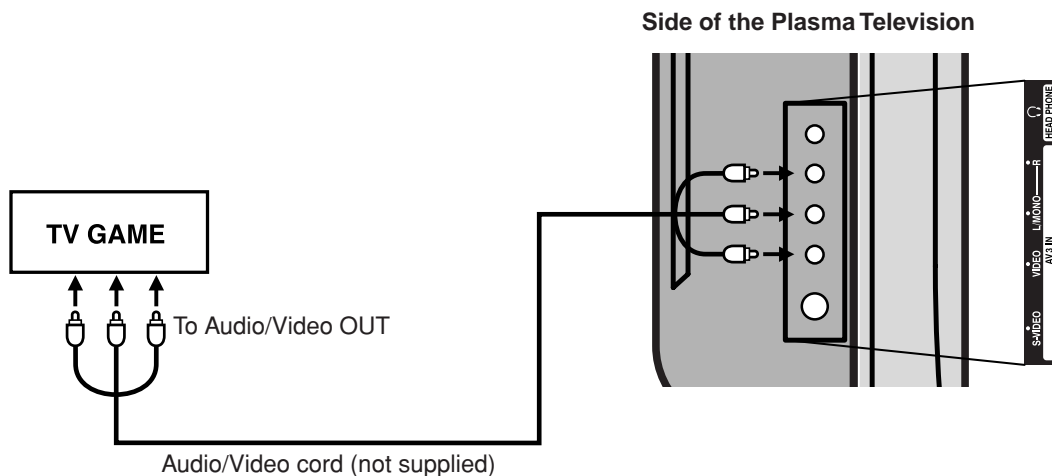
To connect the Plasma Television to a camcorder

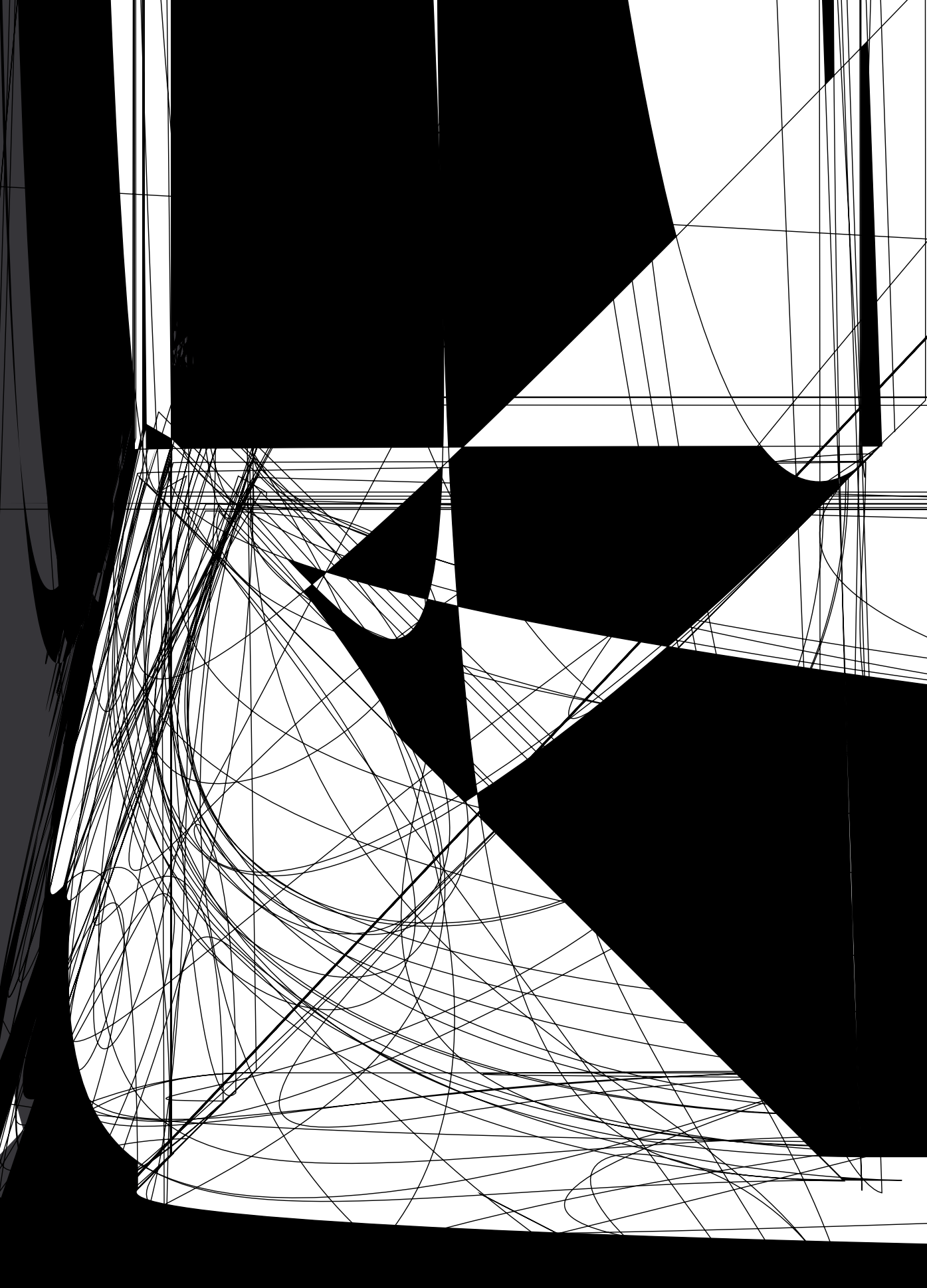
To playback from a camcorder, connect the camcorder to the Plasma Television as shown.

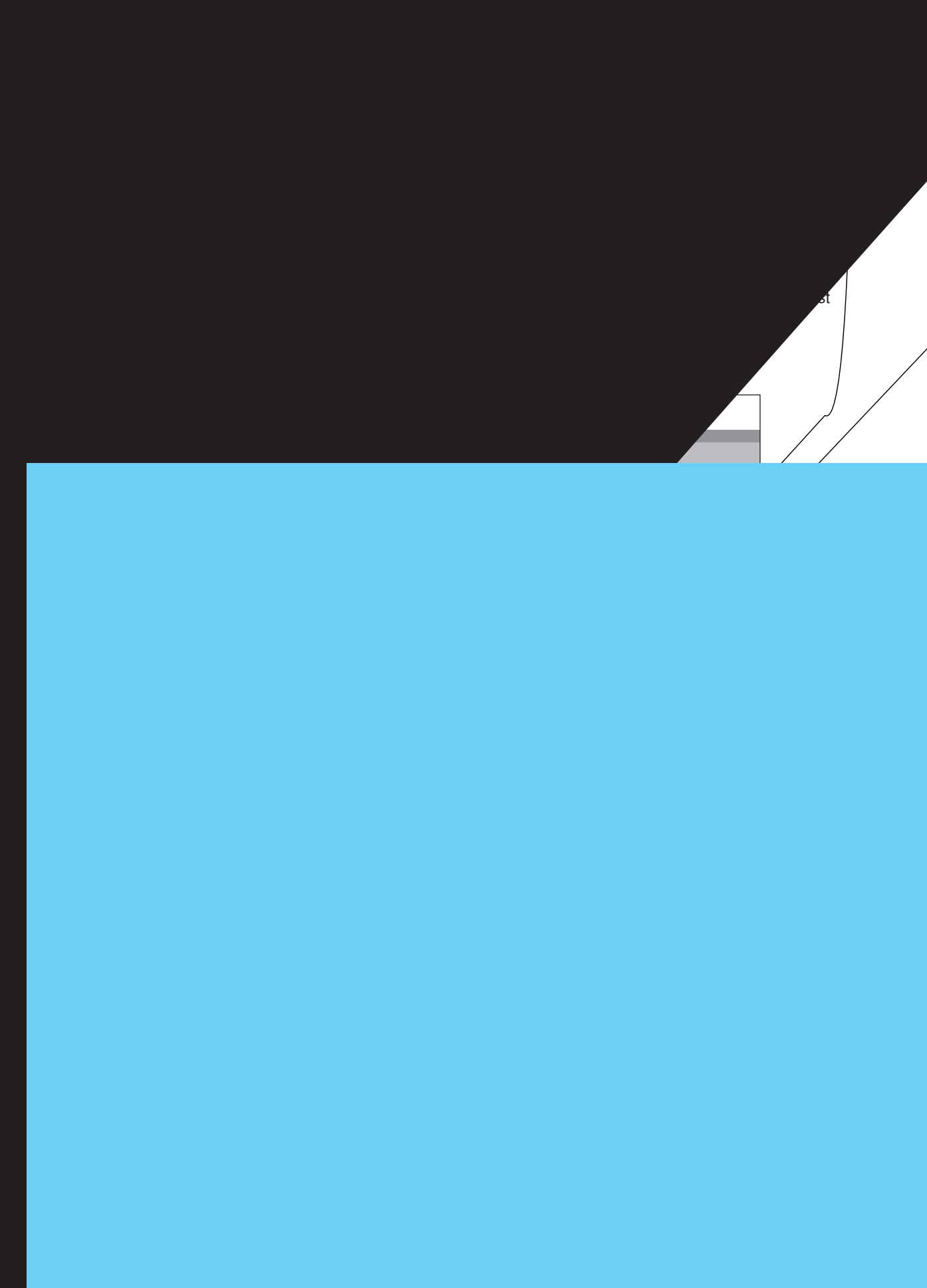


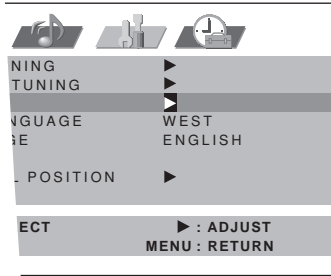
To connect the Plasma Television to a Game


The Plasma Television can also be used as a television device for many video games. However, due to the wide variety of signals generated by these devices and subsequent hook-up variations required, they have not all been included in the suggested connection diagrams. You'll need to consult each component's Owner's Manual for additional information.

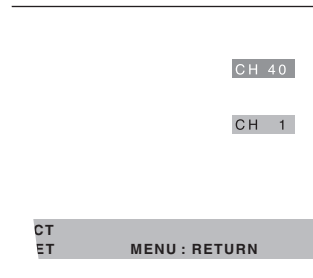





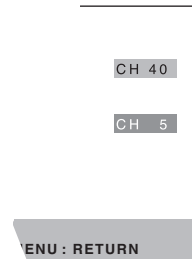




or  until the position number that appears (e.g. CH 40), then press



 until the program-position on moving program appears (e.g.



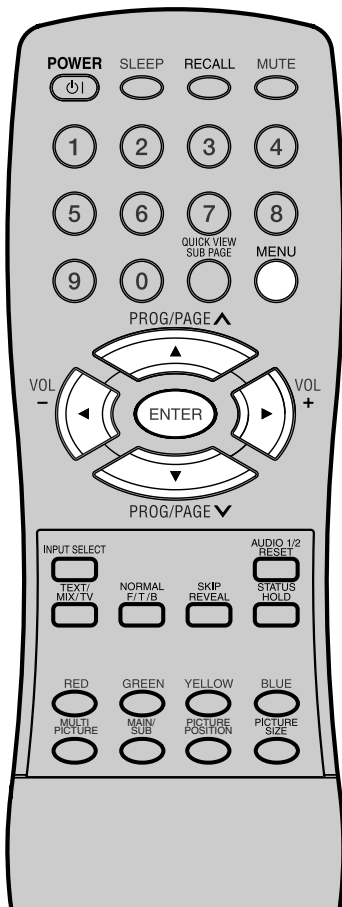
stored in memory position 5.
Repeat this procedure.



appears.

Manual TV station presetting

Usually Automatic station presetting stores all stations of each reception-area. In case of bad receiving condition, some broadcasts may not be stored. These stations can also be stored manually.

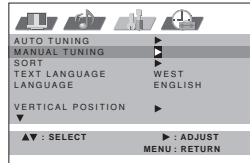


Notes:

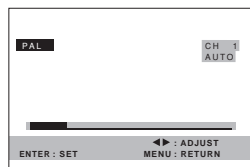
- The auto search stops at the best receiving position automatically. A manual fine tuning is normally not necessary. If want, you can do the manual fine tuning additionally. In step 3, when the auto search stopped at each station, press or until the desired fine tuning achieved. Then press **ENTER**.
- The search moves up to the next station position automatically. If want, you can also hold the search manually. Press or at the desired position. The search keeps hold. If want, do the fine tuning as the description above.

Example: Preset the BBC on program position 2.

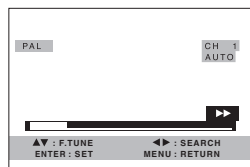
- 1 Select **MANUAL TUNING**. Then press .



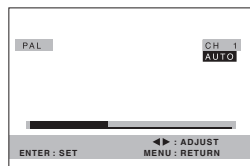
- 2 Press or to select color system (e.g. PAL). Then press **ENTER**.



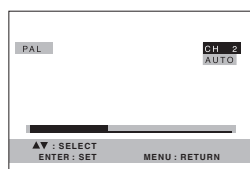
- 3 Press . The auto search starts forward. It will stop at each station with good reception. Press again until you receive the BBC. Then press **ENTER**.



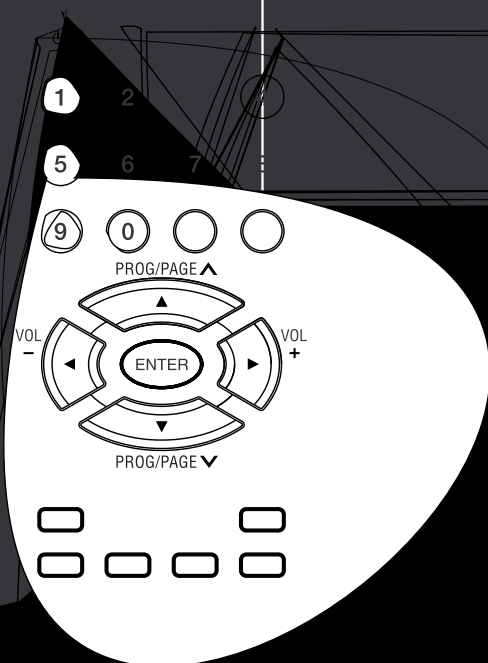
- 4 Press or to select sound system (e.g. AUTO). Then press **ENTER**.



- 5 The channel position number will be highlighted. Press or repeatedly until the number next to CH change to 2. Then press **ENTER**. The BBC was now stored in the channel position **CH 2**.



- 6 Repeat the steps 2 - 5 to preset other TV stations.
- 7 Press **MENU** repeatedly until the MENU disappears.



e. The volume level

Timer functions

The on timer feature allows you to automatically turn on your TV after a preset amount of time (up to 12 hours and 59 minutes) at the selected channel.

The off timer also allows you to turn off your TV after a preset amount of time. You can set the off timer in conjunction with the on timer.

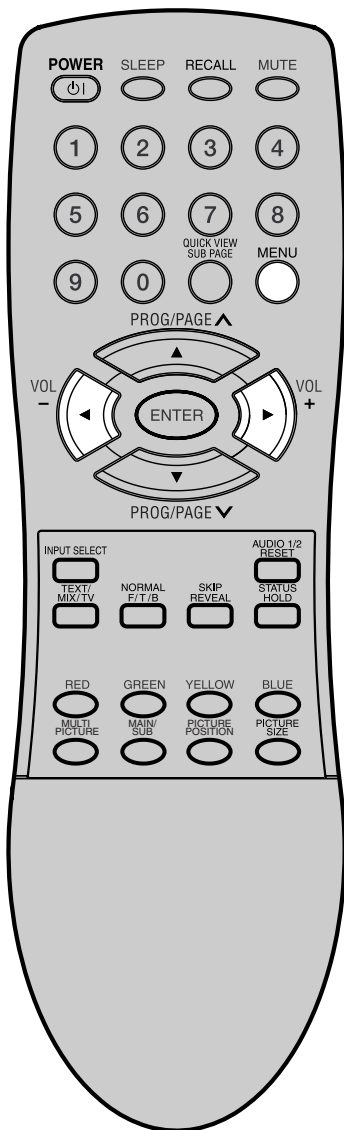
Example: Turn on TV to channel 3 at 10:30.

1

Select On Timer.
Then press ENTER.

Stereo reception with the built-in tuner

This built-in Tuner can receive Stereo-/2 channel-program. In case the Stereo broadcast was send out with NICAM, this unit can distinguish these NICAM Stereo broadcasts automatically.

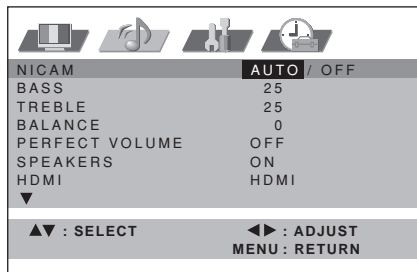


Notes:

- In case of bad reception, the stereo sound also can be disturbed.
- A stereo is not available in the broadcast area of only NTSC.

NICAM stereo sound reception:

- 1 Select NICAM.
Press or to select AUTO or OFF.
Select OFF if you want no NICAM-reception.



- 2 Press **MENU** repeatedly until the MENU disappears.

Followings can be displayed by NICAM-reception.

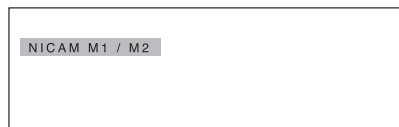
“NICAM ST” illuminates for approx. 4 seconds when a NICAM STEREO broadcast signal is received.



“NICAM M1” illuminates for approx. 4 seconds when a NICAM MONO A broadcast signal is received.



“NICAM M1/M2” illuminates for approx. 4 seconds when a NICAM MONO A and MONO B broadcast signal is received.



It will be displayed for the NICAM signal for approx. 4 seconds when the “NICAM OFF” is selected in menu screen.



A2 Stereo reception

“STEREO” illuminates for approx. 4 seconds when a A2 STEREO broadcast signal is received.



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SLEEP RECALL



2 3

5 6 7

9

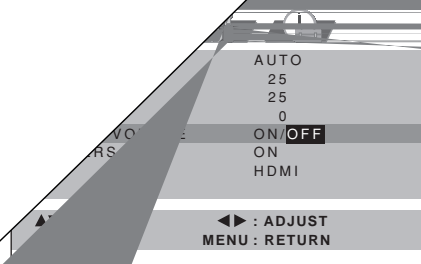


Mo
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Bass, Treble and Balance/Pe

Bass, Treble

1 Select B



2 Press the **ENTER** button repeatedly until the MENU disappears.

Tu

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WOW

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or



NICAM

BASS

TREB

BAL

PE

SP

WOW is a special combination of SRS Labs audio technology that creates a thrilling surround sound experience with deep, rich bass from stereo sound sources. Your TV's audio will sound fuller, richer, and wider. WOW consists of three features; SRS 3D, FOCUS, and TruBass.

1 Select desired WOW feature you want to adjust.



Then press  or  to select the desired feature.

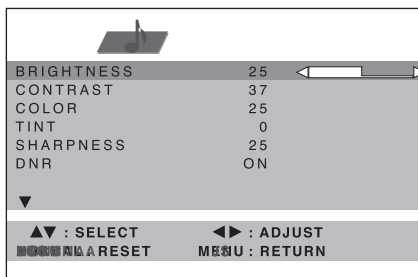


- SRS 3D — To turn on or off the surround sound effect.
- FOCUS — To turn on or off the vocal emphasis effect.
- TruBass — To select your desired bass expansion level (HIGH, LOW or OFF).

2 Press **MENU** repeatedly until the MENU disappears.

Brightness, Contrast, Color and Sharpness

- 1** Select BRIGHTNESS. Then press  or  to adjust the brightness.

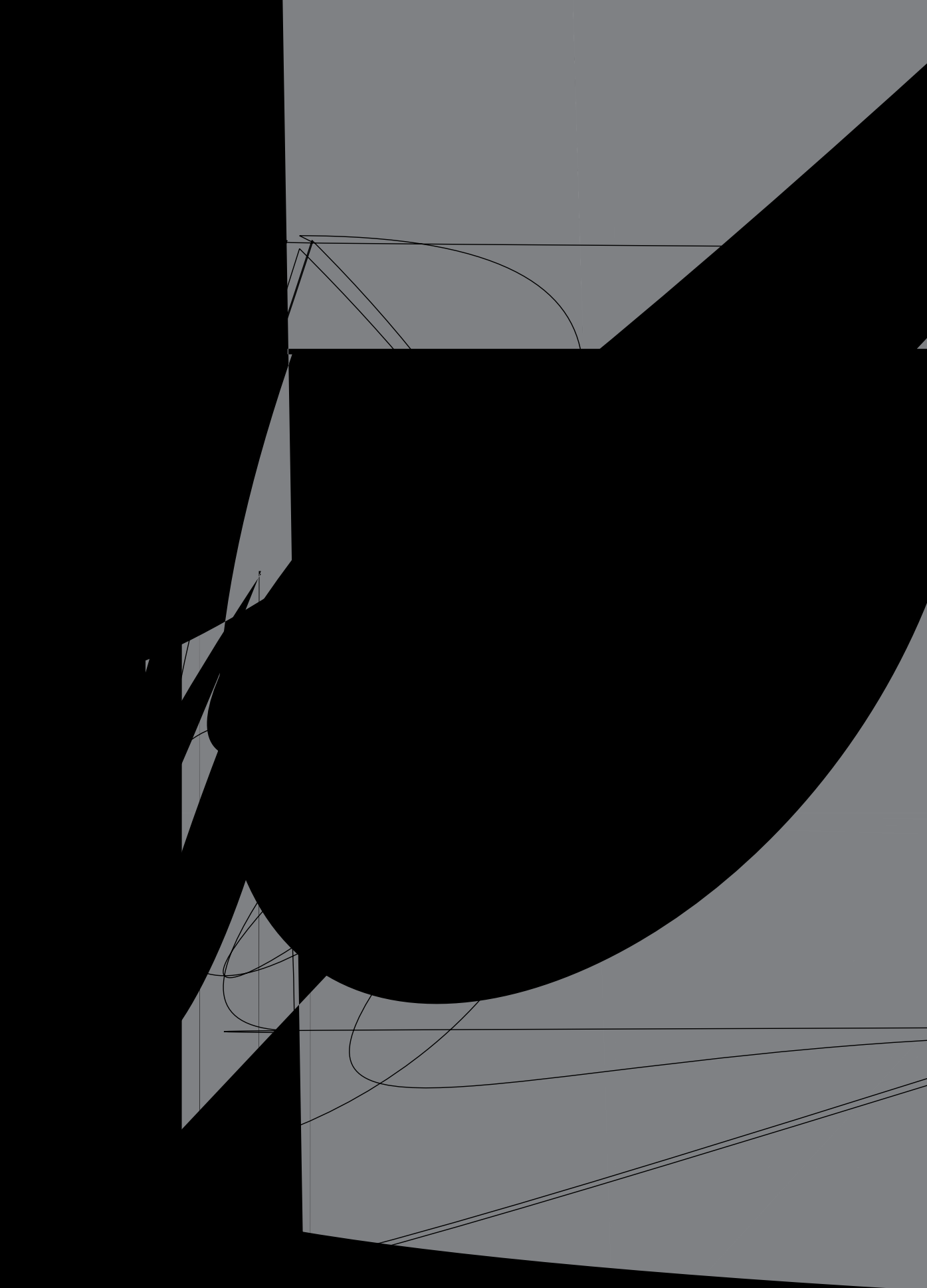


If you wish to set the contrast, color, tint, or sharpness, press  or  to select CONTRAST, COLOR, TINT, or SHARPNESS.

The menu "TINT" can be selected at AV-Playback, if a NTSC 3.58MHz signal comes in through a AV socket and NTSC or AUTO was selected at COLOR SYSTEM 43.

- 2** Press **MENU** repeatedly until the MENU disappears.

- 2** Press **MENU** repeatedly until the MENU disappears.



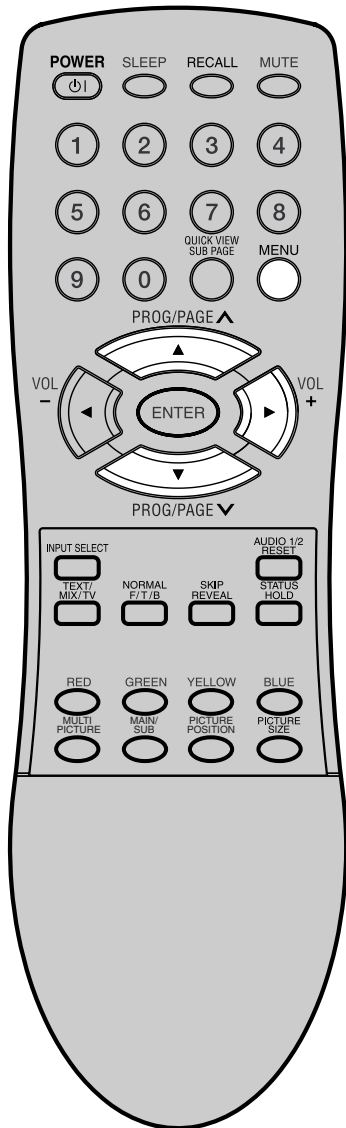
ence.

ch

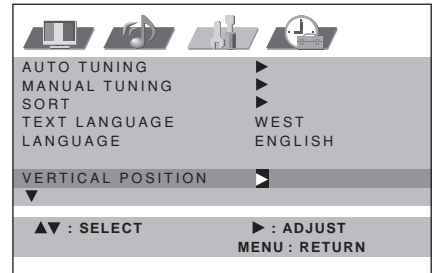
Scrolling the PANORAMIC/ZOOM-Wide picture

Scrolling the PANORAMIC/ZOOM-wide picture

During the PANORAMIC or Zoom-wide mode you can adjust the vertical picture position.

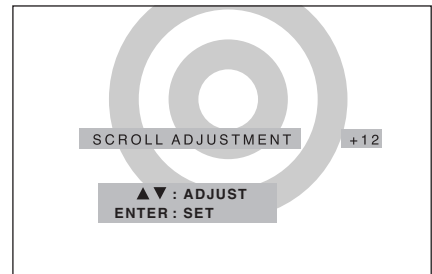


- 1 Select VERTICAL POSITION.
Then press

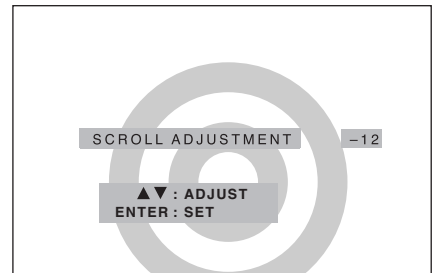


- 2 Press or to adjust the vertical position of the picture.

- To raise the picture, press .



- To lower the picture, press .



- 3 Press **MENU** repeatedly until the MENU disappears.

Note:

You cannot move the picture vertically in other wide mode.

Multi Picture Mode


With this feature, you can watch different pictures simultaneously on one screen in several ways.




- To activate Multi Picture mode in either TV, AV, and PC mode, press **MULTI PICTURE**.

2-picture mode

You can watch two different pictures side by side. This mode is available in both TV mode and AV mode (AV1~3, COMPONENT 1/2 and HDMI Input).

Control on the side with Speaker Icon

The audio comes out ONLY from the side with Speaker icon. You can switch the Input modes (TV, AV1~3, COMPONENT 1/2 and HDMI) only on the side with Speaker icon. TV channel always can be changed with **10 number buttons** regardless of the position of the Speaker icon .

- 1 To shift the speaker icon, press **MAIN/SUB**.
 - The speaker icon  will be shifted from MAIN to SUB back-and-forth.
- 2 To change the TV channel, press  / 

3

ect the Input

n the selected


press

Multi Picture Mode (continued)


Activate the Multi Picture Mode in PC Mode


When you activate the Multi Picture mode in PC Input, the picture will be displayed with Picture-in-Picture style (the Sub-screen displayed inside of the large screen (Main-screen)). This Picture-in-Picture screen mode is effective only in PC mode.

- To activate Multi Picture mode, press **MULTI PICTURE**.




The speaker icon  indicates the following.

- The audio sounds can be heard on the side with the speaker icon.
- When the speaker icon is on the Sub-screen
 - Change channels.
 - Switch the Input modes (TV and AV1~3) on the Sub-screen. (Main-screen is only for PC Input.)

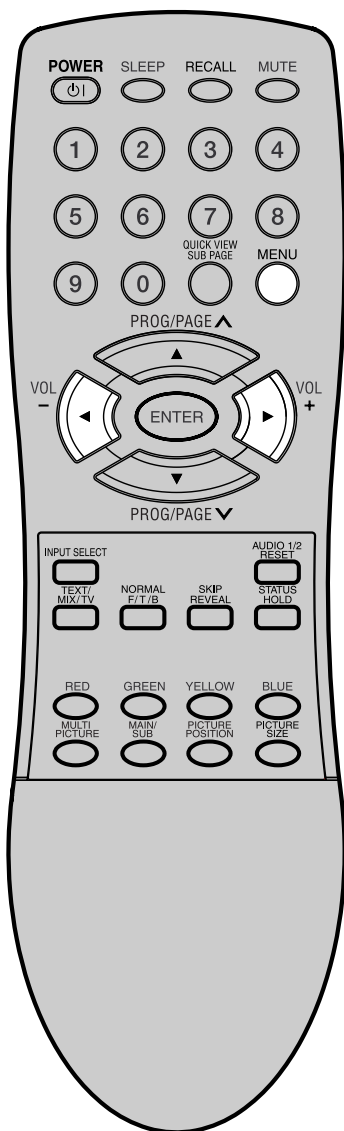
1 To shift the speaker icon , press **MAIN/SUB**.

- The speaker icon  will be displayed in front of the Input mode indication.

2 To change the channel of the Sub-screen.

- Make sure that the speaker icon  is located next to the Input mode indication of the Sub-screen (lower).
- Press  / 

Screen wipe/Screen Saver

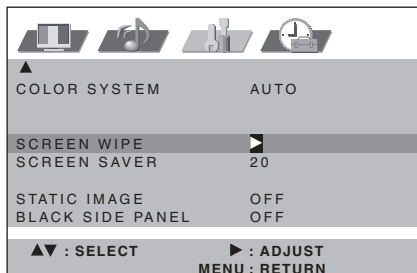


Screen wipe

Aids recovery of retained images on the screen.

Select **SCREEN WIPE**.

Then press

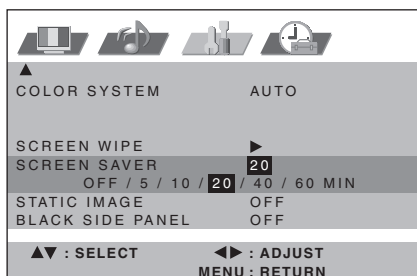


MENU disappears and the picture showing on the screen will be replaced with a white screen. The screen will return to normal when any button is pressed.

Screen Saver

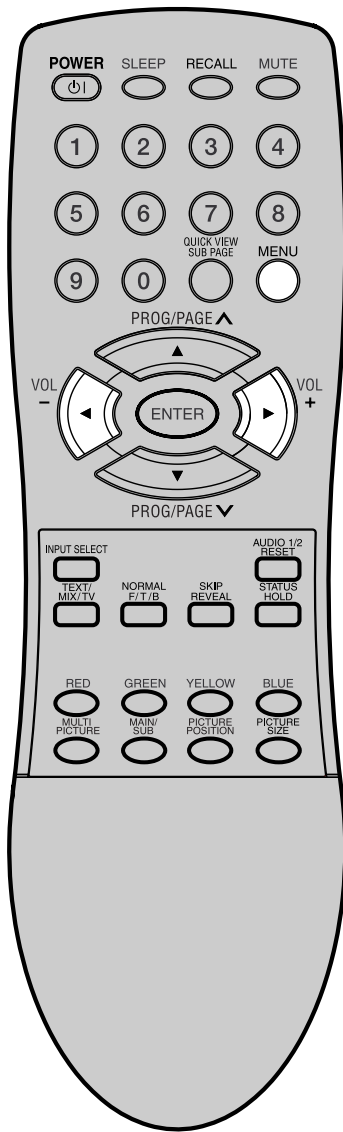
This is one of the initiatives to reduce image retention by moving the displaying screen slightly at set interval. You can select the interval with cursor button.

- 1 Select **SCREEN SAVER**.
Then press or to select interval-time or OFF.



- 2 Press **MENU** repeatedly until the MENU disappears.

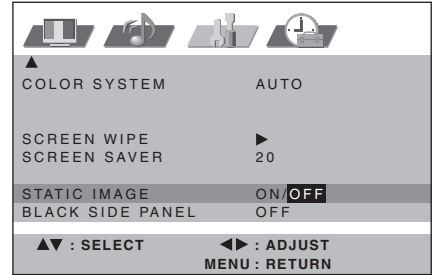
Static Image/Black Side Panel



Static Image

Automatically reduce the brightness in small steps if a static (stationary) image is displayed for a long time. The speed and delay time of this function will depend upon the brightness of displayed picture.

- 1 Select **STATIC IMAGE**.
Then press or to select **ON** or **OFF**.



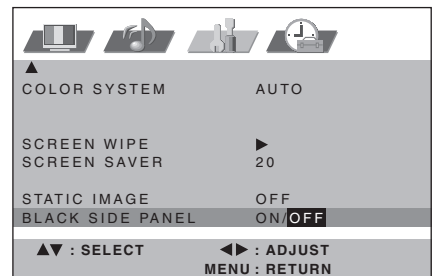
- 2 Press **MENU** repeatedly until the MENU disappears.

Black Side Panel

You can change the color of side bars showing up in 4:3 mode (OFF: gray, ON: black).

It is recommended to set OFF to reduce image retention.

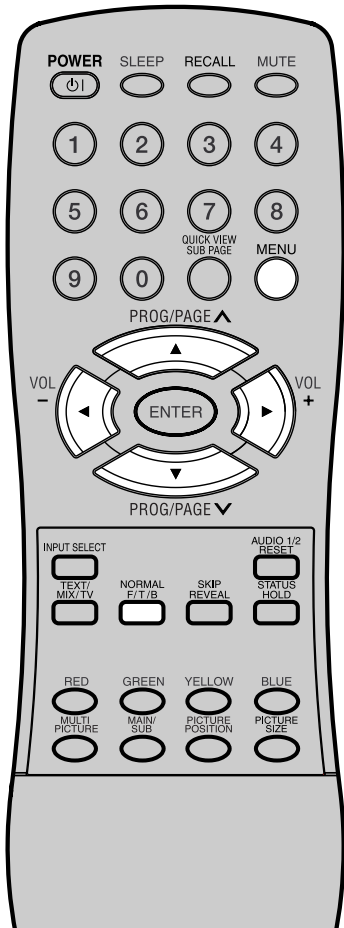
- 1 Select **BLACK SIDE PANEL**.
Then press or to select **ON** or **OFF**.



- 2 Press **MENU** repeatedly until the MENU disappears.

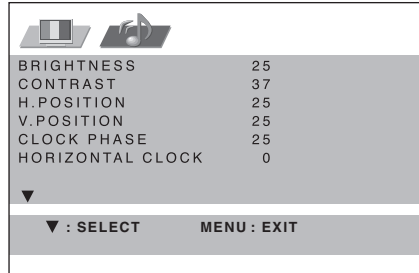


PC-Setting

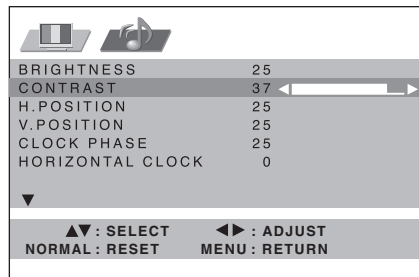


Example: Adjust the contrast.

- 1 During PC mode press **MENU** once. The Menu appears on the TV-screen.



- 2 Press or to select CONTRAST. Then press or to adjust CONTRAST.



- 3 Press **MENU** repeatedly until the MENU disappears.

Description about the each setting option:

PICTURE Menu

BRIGHTNESS and CONTRAST: can be set as you are accustomed to your TV. : the **NORMAL** button resets these values to the middle.

H.POSITION and V.POSITION: to adjust the horizontal and vertical placing of the image.

CLOCK PHASE and HORIZONTAL CLOCK: eliminates the horizontal (HORIZONTAL CLOCK) and vertical (CLOCK PHASE) interfering lines.

AMPLITUDE RED/GREEN/BLUE: influences the color balance. : the **NORMAL** button resets these values to the middle.

WXGA MODE: When you input WXGA, set this option to "ON".

WVGA MODE: When you input WVGA, set this option to "ON".

AUDIO Menu

BASS/TREBLE/BALANCE: Tone setting menu; the **NORMAL** button resets these values to the middle.

PERFECT VOLUME: Select PERFECT VOLUME ON or OFF [27](#).

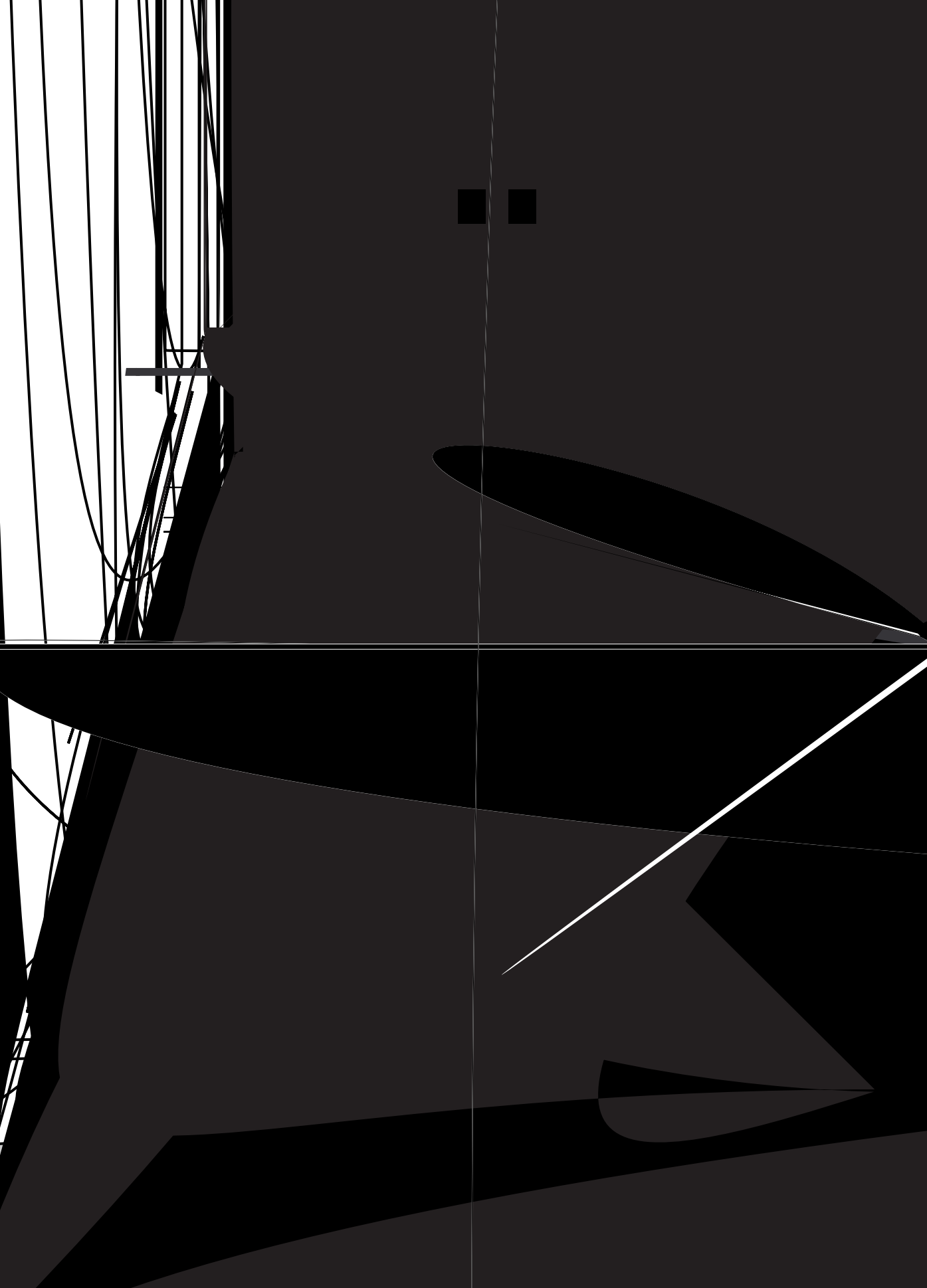
SPEAKERS: Select SPEAKERS ON or OFF [28](#).

HDMI: Select HDMI or DVI [39](#).

WOW SRS 3D/FOCUS/TruBass: Adjust desired WOW feature [28](#).

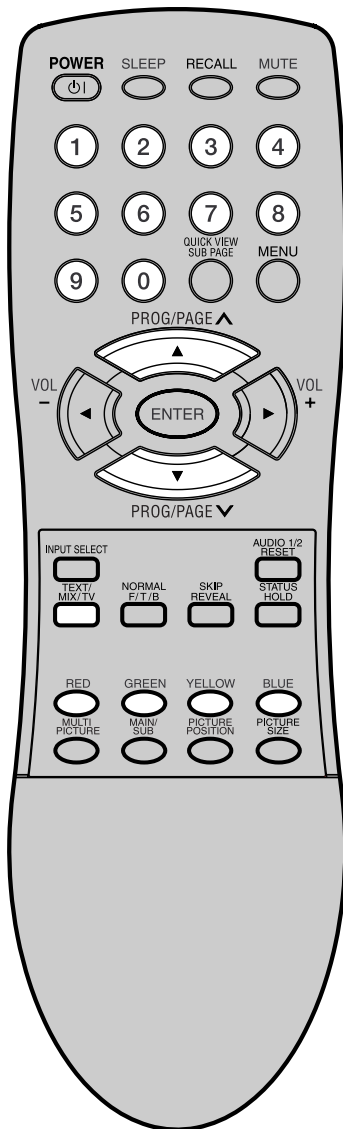
Note:

The PC Monitor Menu settings are not effective for normal TV-mode or external input mode.



Teletext

Teletext is sent page by page. This unit is able to automatically store up to 812 pages. Storage lasts until all pages have been received. The pages can only be accessed when they have been stored. This can take a moment.



Fasttext/Toptext

The Fasttext/Toptext is teletext with a special directory. On the lower part of the screen there are four different colored fields (red, green, yellow and blue). These fields lead directly to the pages shown within. The colored buttons on the remote control correspond to the colored fields. Press the appropriate colored button (**RED, GREEN, YELLOW, BLUE**) in order to activate the desired color field.

Switch on / off Teletext

Teletext is not transmitted by all channels. Select the channel that shows teletext.

Press **TEXT/MIX/TV**. You will now see a teletext page. The channel you have chosen does not send teletext if 100 is shown.

Press **TEXT/MIX/TV** again. Teletext and TV picture are shown simultaneously.

Press **TEXT/MIX/TV** again in order to switch off teletext.



Press **TEXT/MIX/TV** again in order to switch on teletext again.

The last page which was stored is now shown.

Note:

You cannot select any other channels as long as teletext is switched on. Switch teletext off when you want to switch over to another channel.

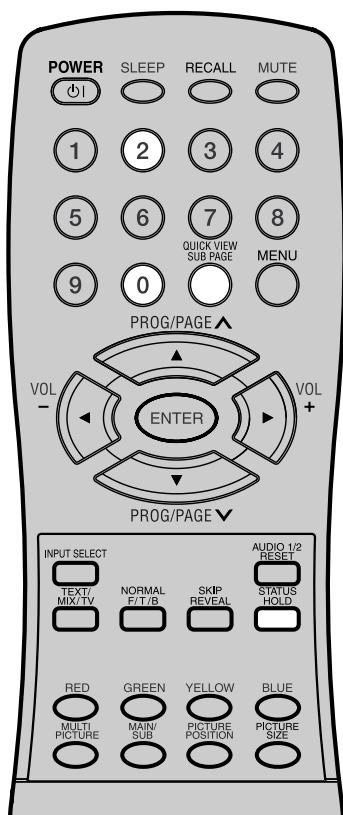
Select Page

Press  or  until the page you desire appears. Or ... enter the requested page number by using the **10**

Number Buttons.

And if you mistype something, just enter the complete 3-digit wrong page number then enter the desired number again. Or ... press one of the colored teletext buttons so that a page from Fasttext/Toptext is shown.

Teletext (continued)



Hold Pages

Some pages are divided up into subpages by the channel. Subpages are automatically shown in turn, as they are transmitted. In order to hold the page, press **HOLD**. Press **HOLD** again in order to display the next subpage.

Directly Select Subpages

You can directly select the subpages if required.

Example:

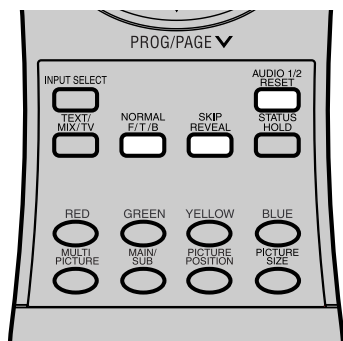
Page 667 from BBC comprises of 2 subpages. In the right upper corner you will, for example, see 1/2. That means that page one of 2 subpages is being shown at the moment.

667 667 BBC-Text 21.07.03 15:01:38
1/2



Press **SUB PAGE** in order to select subpage 2. 4 dashes (----) are shown. Enter **0 0 0 2**. It can take a minute before subpage 0002 appears.

Press **SUB PAGE** again in order to switch off the subpage feature. You can only select other teletext pages when the subpage feature is switched off.



Enlargement

In order to enlarge the display, press **F/T/B**.

Either the upper or lower half of the screen is enlarged.

Each time you press **F/T/B** you switch between the display of the upper or lower half of the screen or the full picture.

Answering Quiz Questions



Some pages contain quiz questions with concealed answers.

Press **REVEAL** in order to show the answers.

Reset



Press **RESET** in order to show page 100.

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Troubleshooting table/Specifications

Troubleshooting table

Please check the following items, before you request for service.

Symptom	Possible solution	Page
No picture, no sound.	Switch on the set. Check the 100~240 V wall outlet. Select appropriate input mode.	9 18
No reception.	Preset the station without using the AV cable. Press 1 on the remote control. Connect the antenna. Check your antenna.	12 12
The TV switches off with missing antenna input signal.	This is normal. 15 minutes after the antenna signal has disappeared, the set will change to standby.	23
In  menu, TUNING-line can not be selected.	The unit is set to AV mode. Press 1 on the remote control.	20
During multi picture mode, sub pictures are not displayed.	Sub pictures image might not be able to be displayed, depending on the combination. (Refer to the table of "2-picture mode")	33

Specifications

Color System:	PAL/SECAM/NTSC
Frequency Range:	1~S6, S7~S36, S37~E69
Power Supply:	AC 100~240V, 50/60Hz
Power Consumption:	Operation: approx. 250W Stand by: approx. 1W
PDP:	41.6" TYPE (105.6 cm visible) 852 x 480 Pixel
HDMI input:	HDMI compliant (type A connector) HDCP compliant Suggested scan rates: PAL: 576i/576p/720p/1080i NTSC: 480i/480p/720p/1080i HDMI Audio: 2-channel PCM 32/44.1/48 kHz sampling frequency 16/20/24 bits per sample
Output Power:	10W x 2 (MAX)
Surrounding temperature:	Operation: 5°C ~ 40°C Storage: -20°C ~ 60°C
Operating Humidity:	Less than 80%RH
Dimensions:	121(W) x 65.8(H) x 11.5(D) cm
Weight:	approx. 34 kg (w/o Accessories)
Accessories:	2 batteries (AAA/R03/UM-4) Remote control unit AC cord

Weight and dimensions are approximate. Because we continually strive to improve our products we may change specifications and designs without prior notice.